

## **ABSTRACT**

A method and system for concatenating eigenvoice vector data with eigenface vector data to obtain a new basic eigenvector to more positively and accurately identify a person. More specifically, for a specific person, the data of an eigenface vector is concatenated with the data of an eigenvoice vector to form a single vector, and this single vector is compared to reference vectors also obtained by concatenating the data of eigenface vectors and eigenvoice vectors to obtain a single vector of each persons in a defined group of people to determine if a person that is a member of a defined group of people. Using this single eigenvector gives a higher success rate for identifying a person than an eigenface vector or an eigenvoice vector used separately or together as separate vectors.